

# Sanyo Service Tip

## USIK / YX6E CHASSIS

07/27/12

**SYMPTOM:** If the power LED on front of the TV is turning ON for 10-20 seconds, OFF for 1-2 second and keeps repeating, the problem is most likely IC5750A. Affected models are the 2009 & 2010 TVs (LCD and Plasma) listed.

IC5750A is located under the large shield. IC 5750A is a 48 pin NAND FLASH IC with easy access for replacement. This will fix +80% of the boards with the symptom below.

**Sanyo Part Number: QXXAVD058- -M**

You must use the 3 dashes when ordering this IC.

| Chassis Version | IC 5700 Samsung | IC 5700 Quimonda |
|-----------------|-----------------|------------------|
| P37819-00       | SW84            | SW82             |
| P42849-00       | SW84            | SW82             |
| P42849-01       | SW84            | SW82             |
| P42849-02       | SW84            | SW82             |
| P42849-04       | SW84            | SW82             |
| P42849-05       | SW84            | SW82             |
| P46849-00       | SW84            | SW82             |
| P46849-01       | SW84            | SW82             |
| P46849-02       | SW84            | SW82             |
| P46849-03       | SW84            | SW82             |
| P46819-00       | SW84            | SW82             |
| P50749-00       | SW84            | SW82             |
| P50749-01       | SW84            | SW82             |
| P50749-02       | SW84            | SW82             |
| P50749-03       | SW84            | SW82             |
| P50719-00       | SW84            | SW82             |
| P52449-01       | <b>SW85</b>     | <b>SW83</b>      |
| P42840-02       | SW84            | SW82             |
| P42840-03       | SW84            | SW82             |
| P42840-04       | SW84            | SW82             |
| P46840-01       | SW84            | SW82             |
| P46840-02       | SW84            | SW82             |
| P50740-01       | SW84            | SW82             |

**SYMPTOM:** If the power LED on front of the TV is turning ON for 10-20 seconds, OFF for 1-2 second and keeps repeating, the problem is most likely IC5750A. Affected models are the 2009 & 2010 TVs (LCD and Plasma) listed.



IC5750 to be replaced

Check IC manufacture for either Samsung or Quimonda

The IC 5750A you receive will have software 84 installed in it. If IC 5700's manufacture is Quimonda or TV is a 52" then the software will need to be changed with the use of a USB drive.

**Note :** Only use this software in the Sanyo TVs listed. If used in wrong chassis, it could cause TV not to come on and IC 5750 will need to be changed again.

# **SANYO**

## **TROUBLESHOOTING GUIDE**

### **2010 MODELS**

### **DP42840 / DP46840 / DP52440**

This guide is divided into 4 sections/pages depending on type of defect:

page 1) No Green LED Power Light (LED never turns "ON")

page 2) Green LED Light is "ON", but Backlights are not "ON", or only turn "ON & then OFF".

page 3) Green LED Light is "ON", and Backlights are "ON", but there is no video/OSD.

page 4) Green LED Light turns "ON", but turns "OFF" within 10 seconds, or LED cycles ON & OFF.

Please select the section/page that matches your defect and follow the flow chart.

These models & chassis versions are in this guide:

DP42840-00

DP42840-01

DP42840-02

DP42840-03

DP42840-04

DP42840-07

DP46840-00

DP46840-01

DP46840-02

DP46840-03

DP52440-00

DP52440-01

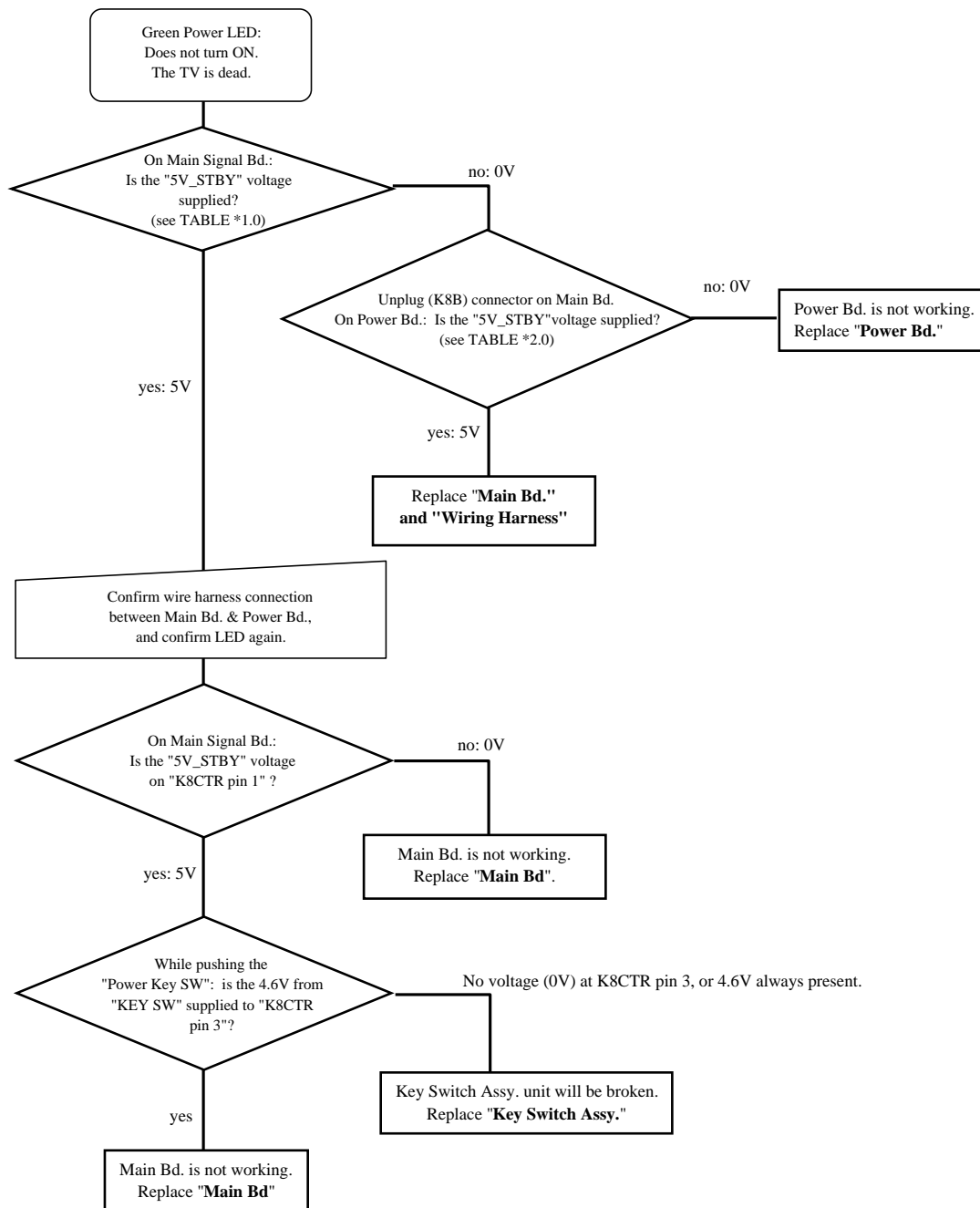
DP52440-02

**PLEASE KEEP THIS GUIDE.**  
**IT WILL NOT BE PROVIDED FOR EVERY REPAIR.**

# Repair Flow Chart: Trouble Condition

page 1

## Green Power LED does NOT turn on. The TV is dead.

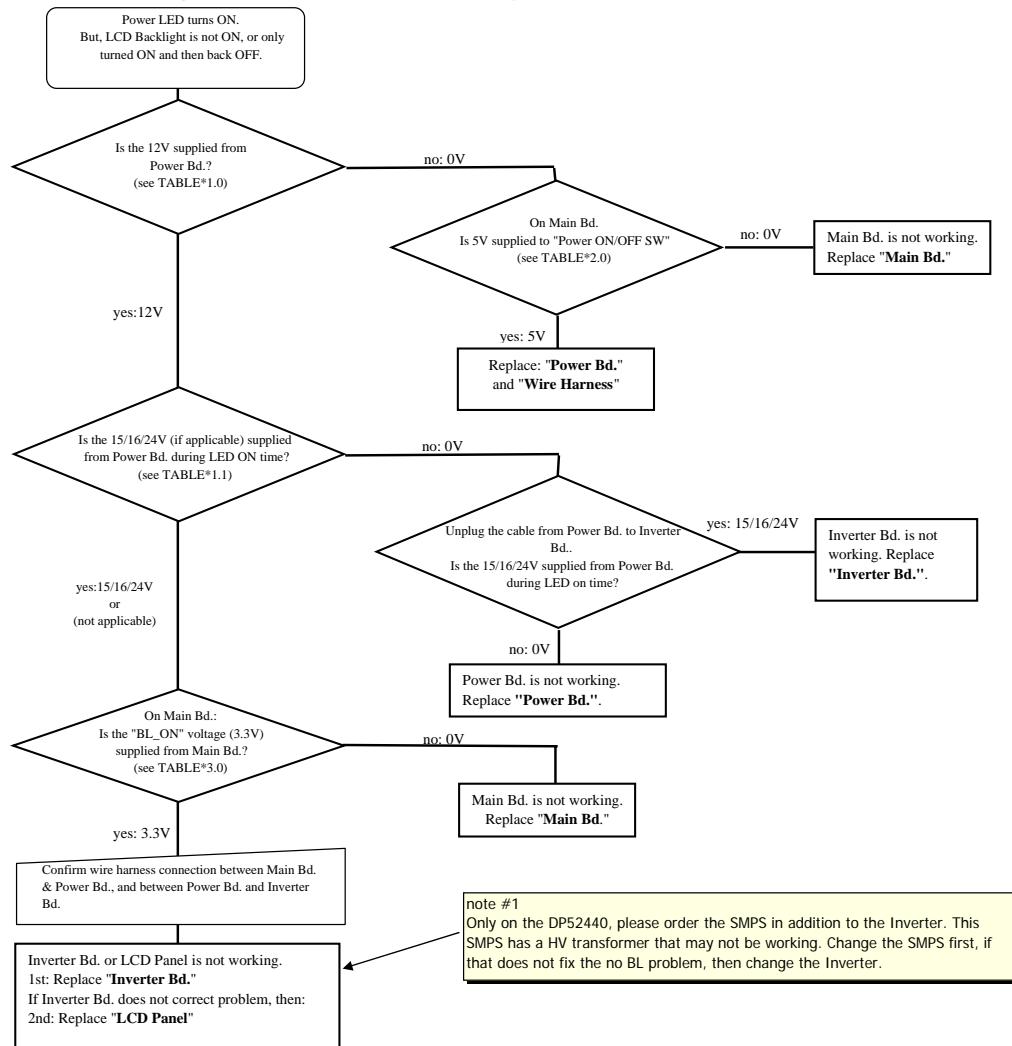


(TABLE \*1.0) Main Bd.: 5V\_STBY Test Points

| 42" Models       | 46" Models       | 52" Models       | 5V_STBY on Main Bd. | Confirmation Voltage |
|------------------|------------------|------------------|---------------------|----------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  | DP52440-00 N7KF  | Main K8B "pin 3"    | 5 V                  |
| DP42840-01 N7AM  | DP46840-01 N7EEE | DP52440-01 N7KFE |                     |                      |
| DP42840-02 N7AFF | DP46840-02 N7EGE | DP52440-02 N7KFF |                     |                      |
| DP42840-03 N7AHE | DP46840-03 N7EKE |                  |                     |                      |
| DP42840-04 N7AJE |                  |                  |                     |                      |
| DP42840-07 N7AS  |                  |                  |                     |                      |

(TABLE \*2.0) Power Bd.: 5V\_STBY Test Points

| 42" Models       | 46" Models       | 52" Models       | 5V_STBY on Power Bd. | Confirmation Voltage |
|------------------|------------------|------------------|----------------------|----------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  |                  | Power K6B "pin 3"    | 5 V                  |
| DP42840-01 N7AM  | DP46840-03 N7EKE |                  |                      |                      |
| DP42840-07 N7AS  |                  |                  |                      |                      |
| DP42840-02 N7AFF | DP46840-01 N7EEE | DP52440-00 N7KF  | Power CN2 "pin 3"    | 5 V                  |
| DP42840-03 N7AHE | DP46840-02 N7EGE | DP52440-01 N7KFE |                      |                      |
| DP42840-04 N7AJE |                  | DP52440-02 N7KFF |                      |                      |

**Green Power LED is on, but LCD backlights are not on.****Backlights do not turn on, or only turn on and back off.****(TABLE \*1.0) 12V Test Points**

| 42" Models       | 46" Models       | 52" Models       | 12V on Main Bd.  | Confirmation Voltage |
|------------------|------------------|------------------|------------------|----------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  | DP52440-00 N7KF  | Main K8B "pin 8" | 12 V                 |
| DP42840-01 N7AM  | DP46840-01 N7EEE | DP52440-01 N7KFE |                  |                      |
| DP42840-02 N7AFF | DP46840-02 N7EGE | DP52440-02 N7KFF |                  |                      |
| DP42840-03 N7AHE | DP46840-03 N7EKE |                  |                  |                      |
| DP42840-04 N7AJE |                  |                  |                  |                      |
| DP42840-07 N7AS  |                  |                  |                  |                      |

**(TABLE \*1.1) 15 / 16 / 24V Test Points**

| 42" Models       | 46" Models       | 52" Models       | 15 / 16 / 24V on Power Bd. | Confirmation Voltage      |
|------------------|------------------|------------------|----------------------------|---------------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  |                  | Power K605 "pin 1"         | 24 V                      |
| DP42840-01 N7AM  | DP46840-03 N7EKE |                  |                            |                           |
| DP42840-07 N7AS  |                  |                  |                            |                           |
| DP42840-03 N7AHE |                  |                  | Power CN4 "pin 1"          | 24 V                      |
| DP42840-04 N7AJE |                  |                  |                            |                           |
| DP42840-02 N7AFF | DP46840-01 N7EEE | DP52440-00 N7KF  | Power CN2 "pin 12"         | 42" & 46" = 16V , 52=15 V |
|                  | DP46840-02 N7EGE | DP52440-01 N7KFE |                            |                           |
|                  |                  | DP52440-02 N7KFF |                            |                           |

**(TABLE \*2.0) Main Bd.: "Power ON/OFF SW" Test Points**

| 42" Models       | 46" Models       | 52" Models       | 12V on Main Bd.  | Confirmation Voltage |
|------------------|------------------|------------------|------------------|----------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  | DP52440-00 N7KF  | Main K8B "pin 1" | 5 V                  |
| DP42840-01 N7AM  | DP46840-01 N7EEE | DP52440-01 N7KFE |                  |                      |
| DP42840-02 N7AFF | DP46840-02 N7EGE | DP52440-02 N7KFF |                  |                      |
| DP42840-03 N7AHE | DP46840-03 N7EKE |                  |                  |                      |
| DP42840-04 N7AJE |                  |                  |                  |                      |
| DP42840-07 N7AS  |                  |                  |                  |                      |

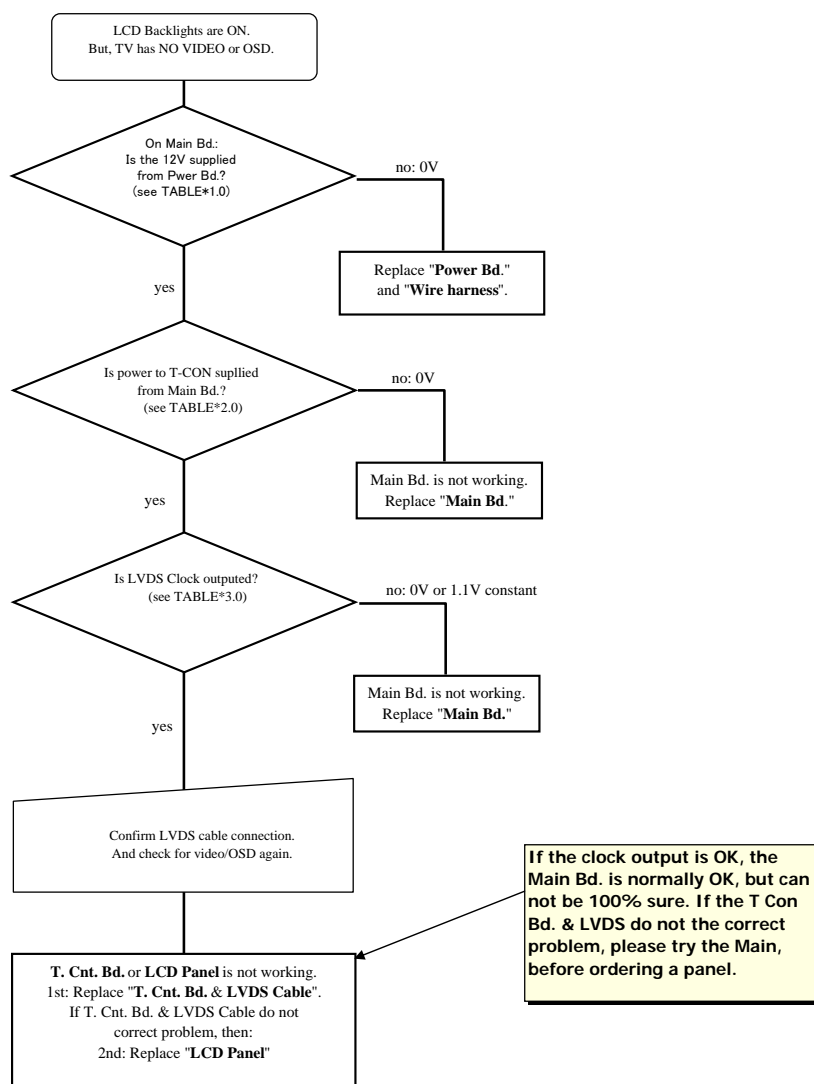
**(TABLE \*3.0) Main Bd.: "BL\_ON" Test Points**

| 42" Models       | 46" Models       | 52" Models       | BL_ON Command - Main | Confirmation Voltage |
|------------------|------------------|------------------|----------------------|----------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  | DP52440-00 N7KF  | Main K8L "pin 3"     | 2.3 - 3.3 V          |
| DP42840-01 N7AM  | DP46840-01 N7EEE | DP52440-01 N7KFE |                      |                      |
| DP42840-02 N7AFF | DP46840-02 N7EGE | DP52440-02 N7KFF |                      |                      |
| DP42840-03 N7AHE | DP46840-03 N7EKE |                  |                      |                      |
| DP42840-04 N7AJE |                  |                  |                      |                      |
| DP42840-07 N7AS  |                  |                  |                      |                      |

# Repair Flow Chart: Trouble Condition

page 3

## Green Power LED and LCD backlights are on, but no video or OSD.



(TABLE \*1.0) Main Bd.: 12V Test Points

| 42" Models       | 46" Models       | 52" Models       | 12V on Main Bd.  | Confirmation Voltage |
|------------------|------------------|------------------|------------------|----------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  | DP52440-00 N7KF  | Main K8B "pin 8" | 12 V                 |
| DP42840-01 N7AM  | DP46840-01 N7EEE | DP52440-01 N7KFE |                  |                      |
| DP42840-02 N7AFF | DP46840-02 N7EGE | DP52440-02 N7KFF |                  |                      |
| DP42840-03 N7AHE | DP46840-03 N7EKE |                  |                  |                      |
| DP42840-04 N7AJE |                  |                  |                  |                      |
| DP42840-07 N7AS  |                  |                  |                  |                      |

(TABLE \*2.0) Main Bd.: "T-CON Power Supply" Test Points

| 42" Models       | 46" Models       | 52" Models       | 12V on Main Bd.    | Confirmation Voltage |
|------------------|------------------|------------------|--------------------|----------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  | DP52440-00 N7KF  | Main K5LV "pin 30" | 12 V                 |
| DP42840-01 N7AM  | DP46840-01 N7EEE | DP52440-01 N7KFE |                    |                      |
| DP42840-02 N7AFF | DP46840-02 N7EGE | DP52440-02 N7KFF |                    |                      |
| DP42840-03 N7AHE | DP46840-03 N7EKE |                  |                    |                      |
| DP42840-04 N7AJE |                  |                  |                    |                      |
| DP42840-07 N7AS  |                  |                  |                    |                      |

(TABLE \*3.0) Main Bd.: "LVDS Clock" Test Points

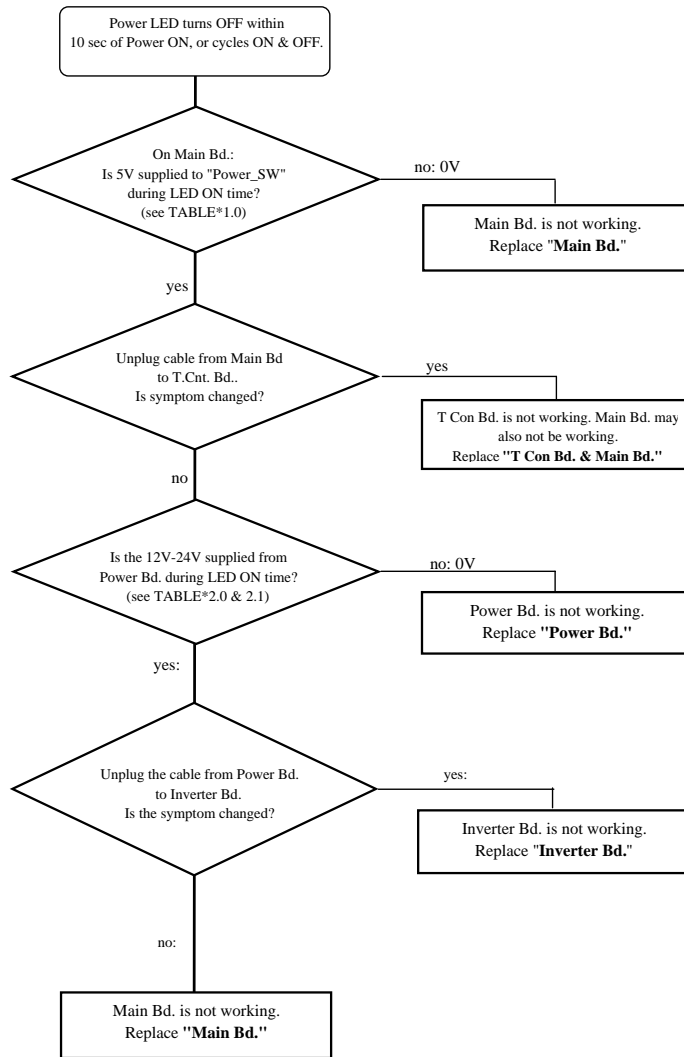
| 42" Models       | 46" Models       | 52" Models       | LVDS Clock on Main Bd.                         | Confirmation Voltage   |
|------------------|------------------|------------------|--|--|
| DP42840-00 N7AL  | DP46840-00 N7EK  | DP52440-00 N7KF  | K5LV pin #33: Clock -<br>K5LV pin #35: Clock + | Waveform will be<br>200 - 450 mV<br>74.25 MHz<br>range = 10-20ns/div |
| DP42840-01 N7AM  | DP46840-01 N7EEE | DP52440-01 N7KFE |  |  |
| DP42840-02 N7AFF | DP46840-02 N7EGE | DP52440-02 N7KFF |  |  |
| DP42840-03 N7AHE | DP46840-03 N7EKE |                  |  |  |
| DP42840-04 N7AJE |                  |                  |  |  |
| DP42840-07 N7AS  |                  |                  |  |  |

**note: The bandwidth of the oscilloscope and probe must be at least 100 MHZ or higher to check if the clock pluse exists**

# Repair Flow Chart: Trouble Condition

page 4

**Power LED turns OFF within 10 sec of Power ON, or LED cycles ON & OFF.**



**(TABLE \*1.0) Main Bd.: "Power ON/OFF SW" Test Points**

| 42" Models       | 46" Models       | 52" Models       | 12V on Main Bd.  | Confirmation Voltage |
|------------------|------------------|------------------|------------------|----------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  | DP52440-00 N7KF  | Main K8B "pin 1" | 5 V                  |
| DP42840-01 N7AM  | DP46840-01 N7EEE | DP52440-01 N7KFE |                  |                      |
| DP42840-02 N7AFF | DP46840-02 N7EGE | DP52440-02 N7KFF |                  |                      |
| DP42840-03 N7AHE | DP46840-03 N7EKE |                  |                  |                      |
| DP42840-04 N7AJE |                  |                  |                  |                      |
| DP42840-07 N7AS  |                  |                  |                  |                      |

**(TABLE \*2.0) 12V Test Points**

| 42" Models       | 46" Models       | 52" Models       | 12V on Main Bd.  | Confirmation Voltage |
|------------------|------------------|------------------|------------------|----------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  | DP52440-00 N7KF  | Main K8B "pin 8" | 12 V                 |
| DP42840-01 N7AM  | DP46840-01 N7EEE | DP52440-01 N7KFE |                  |                      |
| DP42840-02 N7AFF | DP46840-02 N7EGE | DP52440-02 N7KFF |                  |                      |
| DP42840-03 N7AHE | DP46840-03 N7EKE |                  |                  |                      |
| DP42840-04 N7AJE |                  |                  |                  |                      |
| DP42840-07 N7AS  |                  |                  |                  |                      |

**(TABLE \*2.1) 15/16/24V Test Points**

| 42" Models       | 46" Models       | 52" Models       | 15 / 16 / 24V on Power B | Confirmation Voltage      |
|------------------|------------------|------------------|--------------------------|---------------------------|
| DP42840-00 N7AL  | DP46840-00 N7EK  |                  | Power K605 "pin 1"       | 24 V                      |
| DP42840-01 N7AM  | DP46840-03 N7EKE |                  |                          |                           |
| DP42840-07 N7AS  |                  |                  |                          |                           |
| DP42840-03 N7AHE |                  |                  | Power CN4 "pin 1"        | 24 V                      |
| DP42840-02 N7AFF | DP46840-01 N7EEE | DP52440-00 N7KF  | Power CN2 "pin 12"       | 42" & 46" =16 V , 52=15 V |
|                  | DP46840-02 N7EGE | DP52440-01 N7KFE |                          |                           |
|                  |                  | DP52440-02 N7KFF |                          |                           |

# Notice



- ☐ CORRECTION
 ☒ PRODUCTION CHANGE  
☐ SERVICE FLASH
 ☐ ADD INFORMATION

FILE NO.

REVISION 0

Please add this notice to the Service Manual listed below.

Category: **COLOR TELEVISION** Date: **AUGUST / 17 / 2010**  
 Model: **DP42840** Effective from : Chassis No. **P42840-04**  
 Destination: **U.S.A. / CANADA** REF : **No. SM780171-04**

**NOTE:** Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual. **If the Service Manual Chassis No. does not match the unit's**, additional Service Literature is required. This chassis is similar to Chassis No. P42849-00. Only the **difference** Service Information is given in this manual. For detailed Service Information, refer to the **Original** Service Manual and **Notices** for Chassis No. P42849-00 used in Model DP42849 (SM780157).

**SERVICING SHOULD BE PERFORMED BY ONLY TRAINED AND QUALIFIED SERVICE PERSONNEL.**

## 1. IN THE SERVICE ADJUSTMENTS

### PAGE 4 ON-SCREEN SERVICE MENU

Item No. **088 OP2 Data** should be changed from **24h** to **27h** in the table and in Note 2.

## 2. IN THE CHASSIS ELECTRICAL PARTS LIST MISCELLANEOUS

The reason for change.

- A : Misprint    B : Quality Reliability    C : Standardization  
 D : Design    E : Add as a possible sub    F : Schematic location change  
 G : Purchasing Request

| Page & Section                         | Schematic Location |     | Part No.      | Description        | Q'ty | Interchangeability | Reason |
|--|--------------------|-----|---------------|--------------------|------|--------------------|--------|
| Page 9, Chassis Electrical Parts List  | C1807              | Old | N/A           | NOT USED           | 0    | NO                 | D      |
|  |                    | New | CK0J106KGMBNG | CERAMIC 10U Z 6.3V | 1    | NO                 |        |
| Page 9, Chassis Electrical Parts List  | C6361              | Old | N/A           | NOT USED           | 0    | NO                 | D      |
|  |                    | New | CK0J106KGMBNG | CERAMIC 10U Z 6.3V | 1    | NO                 |        |
| Page 12, Chassis Electrical Parts List | D1800              | Old | DD1SS352----G | DIODE 1SS355-TE-17 | 1    | NO                 | D      |
|  |                    | New | N/A           | NOT USED           | 0    | NO                 |        |
| Page 20, Chassis Electrical Parts List | ▲EL901             | Old | 1AV4T40C05500 | LCD(LC420WUN-SBA1) | 1    | NO                 | D      |
|  |                    | New | 1AV4T40C11000 | LCD(V420H1-L15)    | 1    | NO                 |        |

| Page & Section                                 | Schematic Location |     | Part No.      | Description             | Q'ty | Interchangeability | Reason |
|--|--------------------|-----|---------------|-------------------------|------|--------------------|--------|
| Page 14<br>Chassis<br>Electrical<br>Parts List | Q6333              | Old | N/A           | NOT USED                | 0    | NO                 | D      |
|  |                    | New | TISA1235AC1EP | TR ISA1235AC1F          | 1    | NO                 |        |
| Page 16<br>Chassis<br>Electrical<br>Parts List | R1667              | Old | RG122R0JTEANL | MT-GLAZE 22 JA 1W       | 1    | NO                 | D      |
|  |                    | New | N/A           | NOT USED                | 0    | NO                 |        |
|  | R1831              | Old | 1LB4L26B0700G | INDUCTOR, 120 OHM       | 1    | NO                 | D      |
|  |                    | New | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W | 1    | NO                 |        |
|  | R1834              | Old | CK1A105KLZBNG | CERAMIC 1U K 10V        | 1    | NO                 | D      |
|  |                    | New | N/A           | NOT USED                | 0    | NO                 |        |
|  | R1835              | Old | N/A           | NOT USED                | 0    | NO                 | D      |
|  |                    | New | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   | 1    | NO                 |        |
|  | R1839              | Old | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W) | 1    | NO                 | D      |
|  |                    | New | N/A           | NOT USED                | 0    | NO                 |        |
|  | R1842              | Old | RGF2201JTCANL | MT-GLAZE 2.2K JA 1/10W  | 1    | NO                 | D      |
|  |                    | New | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  | 1    | NO                 |        |
|  | R1855              | Old | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   | 1    | NO                 | D      |
|  |                    | New | N/A           | NOT USED                | 0    | NO                 |        |
| Page 18<br>Chassis<br>Electrical<br>Parts List | R6319              | Old | N/A           | NOT USED                | 0    | NO                 | D      |
|  |                    | New | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   | 1    | NO                 |        |
|  | R6324              | Old | N/A           | NOT USED                | 0    | NO                 | D      |
|  |                    | New | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W | 1    | NO                 |        |
|  | R6332              | Old | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W | 1    | NO                 | D      |
|  |                    | New | N/A           | NOT USED                | 0    | NO                 |        |
|  | R6336              | Old | N/A           | NOT USED                | 0    | NO                 | D      |
|  |                    | New | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W | 1    | NO                 |        |
|  | R6338              | Old | N/A           | NOT USED                | 0    | NO                 | D      |
|  |                    | New | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   | 1    | NO                 |        |
|  | R6364              | Old | RGF2201JTCANL | MT-GLAZE 2.2K JA 1/10W  | 1    | NO                 | D      |
|  |                    | New | N/A           | NOT USED                | 0    | NO                 |        |
|  | R6381              | Old | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   | 1    | NO                 | D      |
|  |                    | New | RGF2202JTCANL | MT-GLAZE 22K JA 1/10W   | 1    | NO                 |        |



| Page & Section                                  | Schematic Location |     | Part No.      | Description               | Q'ty | Interchangeability | Reason |
|---|--------------------|-----|---------------|---------------------------|------|--------------------|--------|
| Page 15,<br>Chassis<br>Electrical<br>Parts List | R840               | Old | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W   | 1    | NO                 | D      |
|   |                    | New | N/A           | NOT USED                  | 0    | NO                 |        |
|   | R841               | Old | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W   | 1    | NO                 | D      |
|   |                    | New | N/A           | NOT USED                  | 0    | NO                 |        |
|   | R842               | Old | N/A           | NOT USED                  | 0    | NO                 | D      |
|   |                    | New | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W    | 1    | NO                 |        |
|   | R843               | Old | N/A           | NOT USED                  | 0    | NO                 | D      |
|   |                    | New | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W    | 1    | NO                 |        |
| Page 20,<br>Chassis<br>Electrical<br>Parts List | ▲<br>WK5L-<br>K7L  | Old | 1AA4W30B55900 | CORD 42INCH,40P-51P(LVDS) | 0    | NO                 | D      |
|   |                    | New | 1AA4W30B61700 | CORD 42INCH,40P-51P(LVDS) | 1    | NO                 |        |

For parts or service contact:

**Sanyo Manufacturing Corporation**  
**P.O. Box 2000**  
**3333 Sanyo Road**  
**Forrest City, Arkansas 72335-2000**